10 SECURE MEMORY CARD

20 CONTROL SECTION

30 INTERNAL CPU

41 INTERNAL NONVOLATILE MEMORY

50 LARGE-CAPACITY NONVOLATILE MEMORY

51 SECURE AREA

52 AUTHENTICATION AREA

53 NON-AUTHENTICATION AREA

A. COMMUNICATIONS

B. ACCESSABLE

C. ACCESSABLE AFTER AUTHENTICATION

D. UNCONDITIONALLY

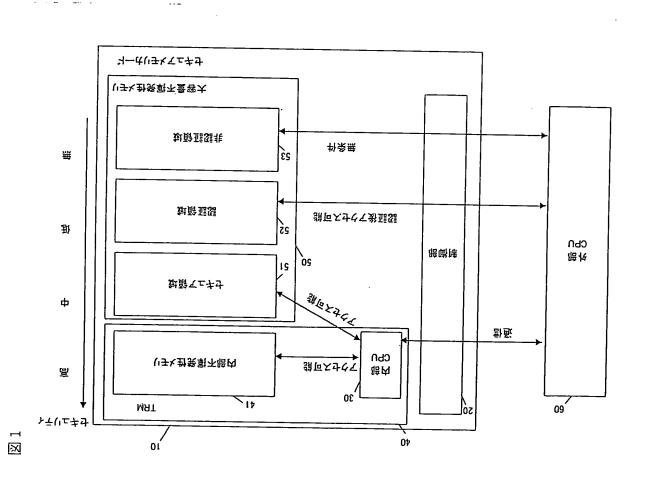
G

SECURITY

HIGH , MEDIUM

130

ONE



/12

10 SECURE MEMORY CARD

IC SECTION 11

I/F SECTION 12

IC COMMAND PROCESSING SECTION 13

FILE MANAGEMENT SECTION

14

IC AUTHENTICATION SECTION MEMORY MANAGEMENT SECTION 15

16

ENCRYPTION AND DECRYPTION CIRCUIT

INTERNAL NONVOLATILE MEMORY I/F SECTION

INTERNAL NONVOLATILE MEMORY

41

CONTROL SECTION 20

DATA I/F SECTION 21

COMMAND I/F SECTION 22

CONTROL AUTHENTICATION SECTION 23

CONTROL COMMAND PROCESSING SECTION 24

ACCESS CONTROL SECTION ,25

LARGE-CAPACITY NONVOLATILE MEMORY I/F SECTION 26

50 LARGE-CAPACITY NONVOLATILE MEMORY

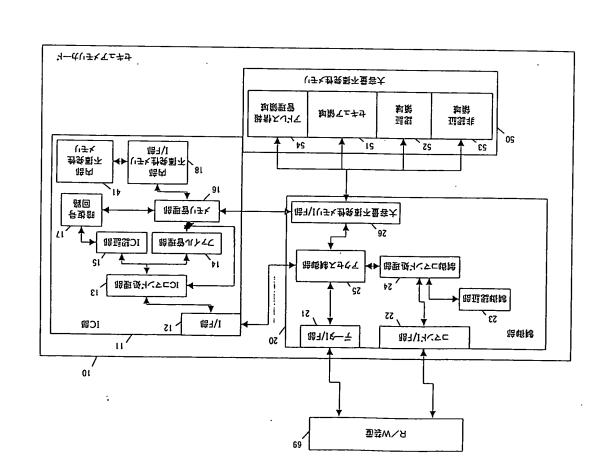
SECURE AREA 21

AUTHENTICATION AREA 52

NON-AUTHENTICATION AREA 23

ADDRESS INFORMATION MANAGEMENT AREA 54

R/W Unit 69



10 SECURE MEMORY CARD

91. CHARGE TERMINAL

92 CHARGE SERVER 93 PAYMENT SERVER

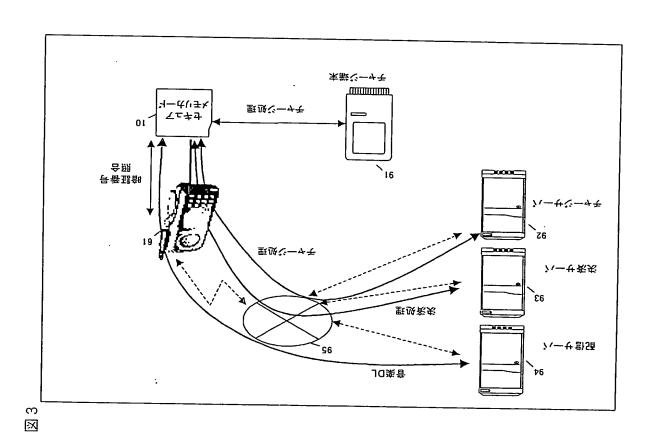
94 DELIVERY SERVER

A. MUSIC DL

B. PAYMENT PROCESSING

C. CHARGE PROCESSING

D. PERSONAL IDENTIFICATION NUMBER CHECK



3/12

10 SECURE MEMORY CARD

64 LIQUID CRYSTAL DISPLAY SECTION

66 OPERATION BUTTON

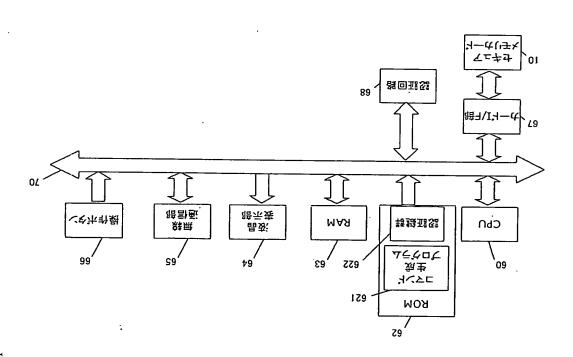
65 WIRELESS COMMUNICATION SECTION

63 AUTHENTICATION CIRCUIT

67 CARD I/F SECTION

621 COMMAND GENERATION PROGRAM

622 AUTHENTICATION KEY GROUP



IC SECTION CONTROL SECTION TERMINAL DELIVERY SERVER FIG.

REQUEST PURCHASE CONTENT

REQUEST PAYMENT

(3) SECTION PAYMENT APPLICATION START REQUEST

TRANSMIT TO IC SECTION

START PAYMENT APPLICATION

on a spine of the

RESPONSE 9

0 PAYMENT APPLICATION JQ SEND AUTHENTICATION REQUEST

(8) SECTION S ဂ္ TRANSMIT

DELIVERY (OR (9) PAYMENT APPLICATION AUTHENTICATES TERMINAL

SERVER)

(10) RESPONSE

PAYMENT APPLICATION 5 SEND PAYMENT AMOUNT (AMOUNT PAYABLE)

PAYMENT REQUEST) (11)

TRANSMIT TO IC SECTION (12)

(13) SUBTRACT AMOUNT PAYABLE FROM BALANCE RECORDED IN INTERNAL

NONVOLATILE MEMORY

(14) RESPONSE

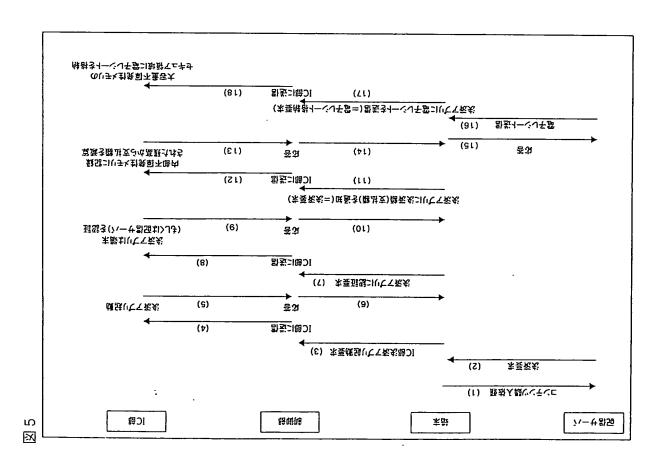
RESPONSE (15)

TRANSMIT ELECTRONIC RECEIPT (16)

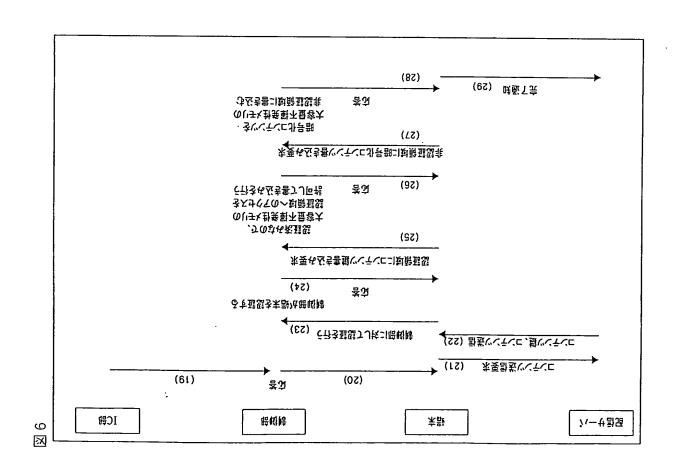
11 APPLICATION PAYMENT ELECTRONIC RECEIPT STORAGE REQUEST) Ţ RECEIPT ELECTRONIC TRANSMIT

TO IC SECTION (18) FRANSMIT

(18) STORE ELECTRONIC RECEIPT IN SECURE AREA OF LARGE-CAPACITY NONVOLATILE MEMORY



ALREADY ဥ INTO ENCRYPTED CONTENT WRITE REQUEST INTO NON-AUTHENTICATION AREA LARGE-CAPACITY OF LARGE-CAPACITY IC SECTION KEY NONVOLATILE MEMORY AND WRITE CONTENT ACCESS CONTENT KEY WRITE REQUEST INTO AUTHENTICATION AREA CONTROL SECTION AUTHENTICATES TERMINAL CONTENT IS CONDUCT AUTHENTICATION FOR CONTROL SECTION (23) CONTROL SECTION OF PERMIT TERMINAL NON-AUTHENTICATION AREA AREA ENCRYPTED KEY AND CONTENT (22) NONVOLATILE MEMORY CONTENT TRANSMISSION REQUEST (21) AUTHENTICATION AUTHENTICATED, SINCE (24) COMPLETION NOTIFICATION (29) TERMINAL WRITE (19)TRANSMIT CONTENT DELIVERY SERVER RESPONSE RESPONSE RESPONSE RESPONSE (28) FIG. 6 (50) (58) (27)



DELIVERY SERVER TERMINAL CONTROL SECTION IC SECTION

CONTENT PURCHASE REQUEST

PAYMENT REQUEST

C SECTION PAYMENT APPLICATION START REQUEST

TRANSMIT TO IC SECTION

RESPONSE START PAYMENT APPLICATION

SEND AUTHENTICATION REQUEST TO PAYMENT APPLICATION

TRANSMIT TO IC SECTION

PAYMENT APPLICATION AUTHENTICATES TERMINAL

(OR DELIVERY SERVER)

RESPONSE

SEND PAYMENT AMOUNT (AMOUNT PAYABLE) TO PAYMENT

APPLICATION (= PAYMENT REQUEST)

TRANSMIT TO IC SECTION

(13') SUBTRACT AMOUNT PAYABLE FROM BALANCE RECORDED IN INTERNAL NONVOLATILE MEMORY STORE CURRENT AMOUNT PAID IN SECURE AREA OF

RESPONSE RESPONSE

LARGE-CAPACITY NONVOLATILE MEMORY

咨询 林谷コ草語でエキサリチト 문건 真就考酷站支记位高野式水与 計策可不量容大多酷战支の回令 (13,) IC部に送信 (本要表矣=)成氫多(窮战支)融充矣コルてて散矣 はにくは配信サーバ)を認証 쫌컓 末齢おいてて衣丸 配送 JIC部に送信 **東要頭踢コル**で下底先 健強いて下家先 참겼 IC铟に深倡 朱夏雄st(代て充劣語)1 蘇効人綴で、マティロ IC铅 乳肉铅 末齡 パーや別語 図

7/12

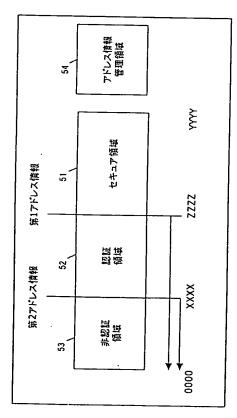
SECOND ADDRESS INFORMATION FIRST ADDRESS INFORMATION

53 NON-AUTHENTICATION AREA

52 AUTHENTICATION AREA

51 SECURE AREA

54 ADDRESS INFORMATION MANAGEMENT AREA



8 / 12

7.

NON-AUTHENTICATION AREA AUTHENTICATION AREA SECURE AREA LOGICAL BLOCK NO. PHYSICAL BLOCK NO. LOGICAL BLOCK NO.

EQUIVALENT EQUIVALENT

EQUIVALENT

相票 =XXXX-1 CFFF CFFF CFFE CFFE 相票 =XXXX 0000 1FFF 宗 = ZZZZ DOOT 1FFE F000 0FFF **FOO1** 3440 0003 0005 2000 0000 0000 0000 3444 1000 相票 **3**443 相큐 1000 1000 ш= FFFF 0000 **EFFF** I-ZZZZ= 0000 0000 ONイベロイ財政 ON4でロV型館 。ONからロケ型は、ONからロケ型部 ·ON4ベロム取料 ON4CロC野鼠 対解でよすす 認証領庫 非認証規慎

51 SECURE AREA

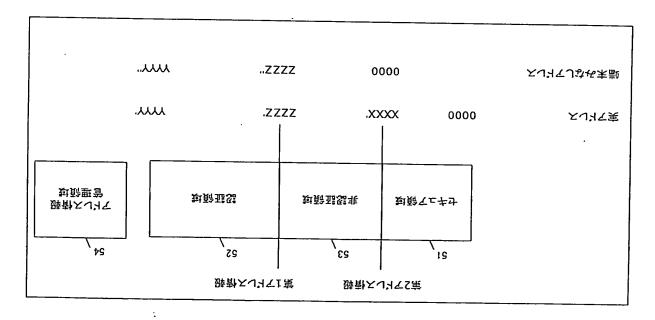
53 NON-AUTHENTICATION AREA

AUTHENTICATION AREA

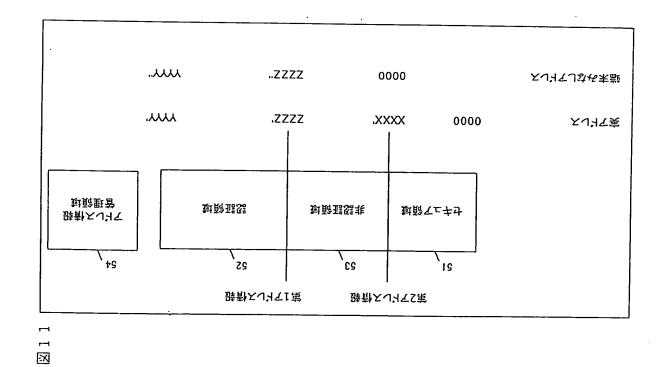
ADDRESS INFORMATION MANAGEMENT AREA 54

REAL ADDRESSES

TERMINAL ASSUMED ADDRESSES



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	AUTHENTICATION AREA	LOGICAL BLOCK NO.
	SECURE AREA NON-AUTHENTICATION AREA	LOGICAL BLOCK NO. PHYSICAL BLOCK NO. LOGICAL BLOCK NO.
16. 12	SECURE AREA	LOGICAL BLOCK

EQUIVALEN
EQUIVALENT
EQUIVALENT

		55里幾萬			型静亚岛 非		対象でよっす	
i	.のかた日で野様	.0かたロで取益		·ON4ペロム配料	·ONなでロケ型観		·ONなでロヤ型成	.0かたで口で野倉
=	7777	0000	TZZZZ=	0000	0000		0000	0000
相景	3333	1000	相票	1000	1000		1000	1000
	•	•			•		2000	2000
		•					£000	6000
	E007	OFFE						
ZZZZ=	600F	0FFF						
相杲	[3343	1 FFE			
			=XXXX.	EFFF	1 EEE			l .
			组录	1] 3333	333,7
		•				TXXXX=	CFFE	CFFE CFFF
						相景	CFFF	